

Does Not Comply
Corrected Diskette Needed

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/981,009A

DATE: 04/04/2002

TIME: 13:48:42

Input Set : A:\sequence project.ST25.txt

Output Set: N:\CRF3\04042002\I981009A.raw

→ The type of errors shown exist throughout
the Sequence Listing. Please check subsequent
sequences for similar errors.

3 <110> APPLICANT: Kjaerulff, Soren
4 Roggen, Erwin
6 <120> TITLE OF INVENTION: Transgenic Plants
8 <130> FILE REFERENCE: 10082.200-US
C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/981,009A
C--> 10 <141> CURRENT FILING DATE: 2001-10-16
10 <160> NUMBER OF SEQ ID NOS: 5
12 <170> SOFTWARE: PatentIn version 3.1
14 <210> SEQ ID NO: 1
15 <211> LENGTH: 159
16 <212> TYPE: PRT
17 <213> ORGANISM: Betula pendula
19 <400> SEQUENCE: 1
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22 1 5 10 15
25 Arg Leu Phe Lys Ala Phe Ile Leu Asp Gly Asp Asn Leu Phe Pro Lys
26 20 25 30
29 Val Ala Pro Gln Ala Ile Ser Ser Val Glu Asn Ile Glu Gly Asn Gly
30 35 40 45
33 Gly Pro Gly Thr Ile Lys Lys Ile Ser Phe Pro Glu Gly Phe Pro Phe
34 50 55 60
37 Lys Tyr Val Lys Asp Arg Val Asp Glu Val Asp His Thr Asn Phe Lys
38 65 70 75 80
41 Tyr Asn Tyr Ser Val Ile Glu Gly Gly Pro Ile Gly Asp Thr Leu Glu
42 85 90 95
45 Lys Ile Ser Asn Glu Ile Lys Ile Val Ala Thr Pro Asp Gly Gly Ser
46 100 105 110
49 Ile Leu Lys Ile Ser Asn Lys Tyr His Thr Lys Gly Asp His Glu Val
50 115 120 125
53 Lys Ala Glu Gln Val Lys Ala Ser Lys Glu Met Gly Glu Thr Leu Leu
54 130 135 140
57 Arg Ala Val Glu Ser Tyr Leu Leu Ala His Ser Asp Ala Tyr Asn
58 145 150 155
61 <210> SEQ ID NO: 2
62 <211> LENGTH: 5
63 <212> TYPE: PRT
64 <213> ORGANISM: Microbial invalid response, see error summary sheet item 10
66 <220> FEATURE:
67 <221> NAME/KEY: Misc_feature
68 <222> LOCATION: (4)..(4)
69 <223> OTHER INFORMATION: Xaa denotes any amino acid
72 <400> SEQUENCE: 2
W--> 74 Ala Arg Arg Xaa Arg

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Output Set: N:\CRF3\04042002\I981009A.raw

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75 1          5
78 <210> SEQ ID NO: 3
79 <211> LENGTH: 4
80 <212> TYPE: PRT
81 <213> ORGANISM: Microbial - same error
83 <220> FEATURE:
84 <221> NAME/KEY: Misc_feature
85 <222> LOCATION: (3)..(3)
86 <223> OTHER INFORMATION: Xaa denotes any amino acid
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W--> 91 Arg Arg Xaa Ser
92 1
95 <210> SEQ ID NO: 4
96 <211> LENGTH: 5
97 <212> TYPE: PRT
98 <213> ORGANISM: Microbial
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101 <221> NAME/KEY: Misc_feature
102 <222> LOCATION: (3)..(3)
103 <223> OTHER INFORMATION: Xaa denotes any amino acid
106 <220> FEATURE:
107 <221> NAME/KEY: Misc_feature
108 <222> LOCATION: (4)..(4)
109 <223> OTHER INFORMATION: Xaa denotes any amino acid
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W--> 114 Arg Arg Xaa Xaa Ser
115 1          5
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121 <213> ORGANISM: Microbial
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125 <222> LOCATION: (1)..(1)
126 <223> OTHER INFORMATION: Xaa denotes Lys or Arg
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130 <221> NAME/KEY: Misc_feature
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137 <222> LOCATION: (3)..(3)
138 <223> OTHER INFORMATION: Xaa denotes any amino acid
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142 <221> NAME/KEY: Misc_feature
143 <222> LOCATION: (4)..(4)
144 <223> OTHER INFORMATION: Xaa denotes any amino acid
147 <220> FEATURE:
148 <221> NAME/KEY: Misc_feature

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RAW SEQUENCE LISTING

DATE: 04/04/2002

PATENT APPLICATION: US/09/981,009A

TIME: 13:48:42

Input Set : A:\sequence project.ST25.txt

Output Set: N:\CRF3\04042002\I981009A.raw

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149 <222> LOCATION: (5)..(5)
150 <223> OTHER INFORMATION: Xaa denotes Asp or Glu
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154 <221> NAME/KEY: Misc_feature
155 <222> LOCATION: (6)..(6)
156 <223> OTHER INFORMATION: Xaa denotes any amino acid
159 <220> FEATURE:
160 <221> NAME/KEY: Misc_feature
161 <222> LOCATION: (7)..(7)
162 <223> OTHER INFORMATION: Xaa denotes any amino acid
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166 <221> NAME/KEY: Misc_feature
167 <222> LOCATION: (8)..(8)
168 <223> OTHER INFORMATION: Xaa denotes any amino acid
171 <400> SEQUENCE: 5
W--> 173 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Tyr
174 1 5
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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/981,009A

DATE: 04/04/2002

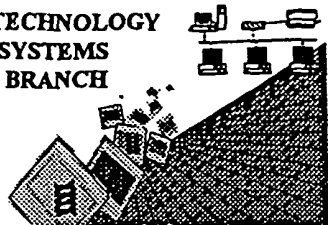
TIME: 13:48:43

Input Set : A:\sequence project.ST25.txt

Output Set: N:\CRF3\04042002\I981009A.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:74 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:91 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:114 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:173 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5

BIOTECHNOLOGY
SYSTEMS
BRANCH



2-1)
503V
#7

RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/981,007A
Source: 0188
Date Processed by STIC: 4/4/02

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER**
VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/efb/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

Raw Sequence Listing Error Summary

01PE

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 09/981,009A

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino
 Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences
 (OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
 (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped

 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences
 (NEW RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
 <210> sequence id number
 <400> sequence id number
 000
- 9 Use of n's or Xaa's
 (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
 Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa; and which residue n or Xaa represents.
- 10 Invalid <213>
 Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.
 Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0
 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

09/981009
~~ CProject

CProjectData Transgenic Plants

Does Not Comply
Corrected Diskette Needed

10082.200-US ____-__-__ S:\ENZYME\PAT-
ADM\MoBi\10082\WO ~~ CProtein1Sequence
SEQ ID NO 1

Betula pendulaáGVFNJETETT SVIPAARLFK AFILDGDNLF PKVAPQAIS VENIEGNNGP GTIKKISFPE
60
GFPFKYVKDR VDEVHTNFK YNYSVIEGGP IGDITLEKISN EIKIVATPDG GSILKISNKY 120
HTKGDHEVKA EQVKASKEMG ETLLRAVESY LLAHSDAYN
159 ARNDBCQEZGHILKMFPSTWYVX PRT ~~ CCommentF
eature ?
SEQ ID NO 2
Microbial ARRXR ARNDBCQEZGHILKMFPSTWYVX PRT

-- CProject --

CProjectData Transgenic Plants

10082.200-US - - S:\ENZYME\PAT-
ADM\MoBi\10082\WO -- CProteinSequence
SEQ ID NO 1

Betula pendulaáGVFNYETETT SVIPAARLFK AFILDGDNLF PKVAPQAIS VENIEGNGGP GTIKKISFPE
60

GFPFKYVKDR VDEV DHTNFK YNYSVIEGGP IGD TLEKISN EIKIVATPDG GSILKISNKY 120

HTKGDHEVKA EQVKASKEMG ETLLRAVESY LLAHSDAYN

159 ARNDBCQEZGHILKMFPSTWYVX PRT -- CCommentF
eature ?

SEQ ID NO 2

Microbial ARRXR ARNDBCQEZGHILKMFPSTWYVX PRT

? --

COtherFeature

Misc_feature Xaa denotes any amino acid 4 4 ?

SEQ ID NO 3

Microbial RRXS ARNDBCQEZGHILKMFPSTWYVX PRT

?

?

Misc_feature Xaa denotes any amino acid 3 3 ?

SEQ ID NO 4

Microbial RRXS ARNDBCQEZGHILKMFPSTWYVX PRT

?

?

Misc_feature Xaa denotes any amino acid 3 3

?

Misc_feature Xaa denotes any amino acid 4 4 ?

SEQ ID NO 5 Microbial

XXXXXXXXY ARNDBCQEZGHILKMFPSTWYVX PRT

? tJ]

?

Misc_feature Xaa denotes Lys or Arg 1 1

?

Misc_feature Xaa denotes any amino acid 2 2

?